

Name _____ Class _____ Date _____

2.1e Weather variables are interrelated. Temperature and humidity affect air pressure and probability of precipitation Air pressure gradient controls wind velocity

Standard 6 Key Idea: debate the effect of human activities as they relate to quality of life on Earth systems (global warming, land use, preservation of natural resources, pollution)

Below Standards:	Meets Standards:	Exceeds Standards:
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E.Q. How can we apply our model of wind patterns to predict the destination of waste?

GPS Coordinates 40.6° N , 74° W

Task: Using the web addresses below find the gps coordinates provided (your starting point). This is the location where your plastic bag begins it's journey. Draw a Triangle at your starting location. You will use the two web addresses to then create a predicted path of your bag. Draw this predicted path on the map, which is located on the back of this paper. Your goal is to determine where your bag will end up. Draw a X at the location where your bag will end up. Draw the pressure symbols (forecast map) on your map to use as evidence for your predicted paths.

<http://earth.nullschool.net/>

<http://www.weather-forecast.com/maps/Global-Atlantic>

Exceeding the standards challenge: Determine through research which has more of an impact on waves and ocean current (Wind OR Convection of Ocean Water)

4	3	2	1
Map has predicted path of the bag that can be followed from start to finish.	Map has predicted path of the bag that can be followed but may be slightly off.	Map has predicted path that is confusing or disjointed	Map does not have followable path.
Map has pressure symbols drawn on the map. Symbols accurately match wind patterns or path.	Map has pressure symbols drawn on the map. May be missing one major pressure system.	Map has pressure symbols drawn on the map. May be missing more than one major pressure system.	Map has pressure symbols switched or missing.
Starting location and ending location are accurate	Slight error in starting or ending location	Error in start location and end location	Start and end location are not present

Total _____

